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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,841	12/22/2000	Shrikant Acharya	M-8754 US	9328

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EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 03/25/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/746,841

Applicant(s)

ACHARYA ET AL.

Examiner

Kimnhung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 January 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 48 is/are allowed.
- 6) ☒ Claim(s) 1-21 and 31-47 is/are rejected.
- 7) ☒ Claim(s) 22-30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

This Application has been examined. The original claims 1-48 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 4-20, and 31-46 are rejected under 35 U.S.C. 102(b) as being anticipated by Kikinis et al. (US patent 5,522,089).

Regarding claims 1-2,31-46, Kikinis et al. disclose in figures 1-6 that the expansion module for controlling display presentations stored in a handheld computing (10) having an expansion slot (figures 1A-1B), a microcontroller (11) and system memory (13), the expansion module comprising a communication interface (connector portion 20, figure 6) which attaches the expansion slot providing handled computing device's expansion slot, memory (13) for storing control software and image data, the microcontroller executing control software to decode the image data (see column 10, lines 59-67 and column 11, lines 1-15); and an external display controller for converting decoded image data to electronic signals for delivery to an external display device (25, see figure 6), and the communication interface is specific integrated circuit (ASIC) (see figure 6).

3. Regarding claims 4-20, Kikinis et al. disclose that the communication interface converts image data coded by the microcontroller (figure 6) to a format that meets the external

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display controller (system RAM 62) (figure 6). The expansion slot is a springboard connector (14, see figure 6, column 11, lines 3-9). The memory for storing control software and image data is flash ROM memory (see column 6, lines 50-51) and as an extension of the system memory (because it via a bus structure and expansion devices), and controller includes a memory buffer for storing decoded image data (see column 7, lines 51-65), and column 9, lines 55-63), and expansion module using wireless technology (by e-mail, see column 13, lines 56-64). Furthermore, Kikinis disclose the power source (15) is a feedback power line source from an external display device and is an AC outlet because power source from an external display (see figure 6), and the expansion further comprising an audio interface for connection to an audio device (see column 19, lines 42-55).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3, 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis et al. (US patent 5,522,089) in view of Liebl et al. (US patent 6,236,917).

Kikinis et al. disclose in figures 1-6 that the expansion module for controlling display presentations stored in a handheld computing (10) having an expansion slot (figures 1A-1B), a microcontroller (11) and system memory (13), the expansion module comprising a

communication interface (connector portion 20, figure 6) for attaching the expansion slot providing handheld computing device's expansion slot, memory (13) for storing control software and image data, the microcontroller executing control software to decode the image data (see column 10, lines 59-67 and column 11, lines 1-15); and an external display controller for converting decoded image data to electronic signals for delivery to an external display device (25, see figure 6). However, they do not disclose that wherein the communication interface is specific as programmable gate array (FPGA). Liebl et al. disclose (FPGA 218) in figure 2. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings as taught by Liebl et al. using the (FPGA) data in the device as of Kikinis because this would provide the audio driver for execution and presentation by the speaker.

6. Claims 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis et al. (US patent 5,522,089) in view of Nahi et al. (US patent 6,084,584).
7. Regarding claims 21, Kikinis disclose that the method for loading a presentation on a handheld computing device comprising writing image data to a driver (see figure e 6), and executing control software in memory causing a microcontroller to transfer the presentation data base to the handheld computing device (see figure 6). However, Kikinis et al. do not disclose data compression. Nahi et al. disclose the data compression (202, see figure 8). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings as taught by Nahi et al. using the data compression in the device as of Kikinis because this would provide the audio driver for execution and presentation by the speaker.

Allowable Subject Matter

8. Claim 48 is allowed.
9. Claims 22-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

None of the cited art teaches or suggests that a method of claim 21, for loading a presentation on a handheld computing device comprising writing image data to a driver, the driver including data compression and presentation organizer software, wherein the handheld computing device is attached to an expansion module for displaying the presentation data on an external display, the handheld computing system having a first memory, and the expansion module having a second memory as now claimed.

Response To Arguments

10. Applicant's argument filed on 1-17-03 has been fully considered but they are not persuasive.

Applicant argues that Kikinis et al. do not disclose an expansion module. However, this argument is not persuasive due to the teaching of Kikinis with an expansion slot as discussed above. Therefore, this rejection is maintained.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen
March 21, 2003



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600